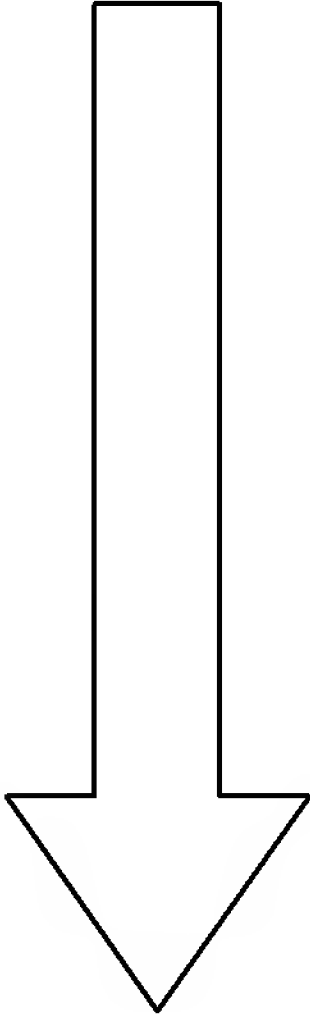
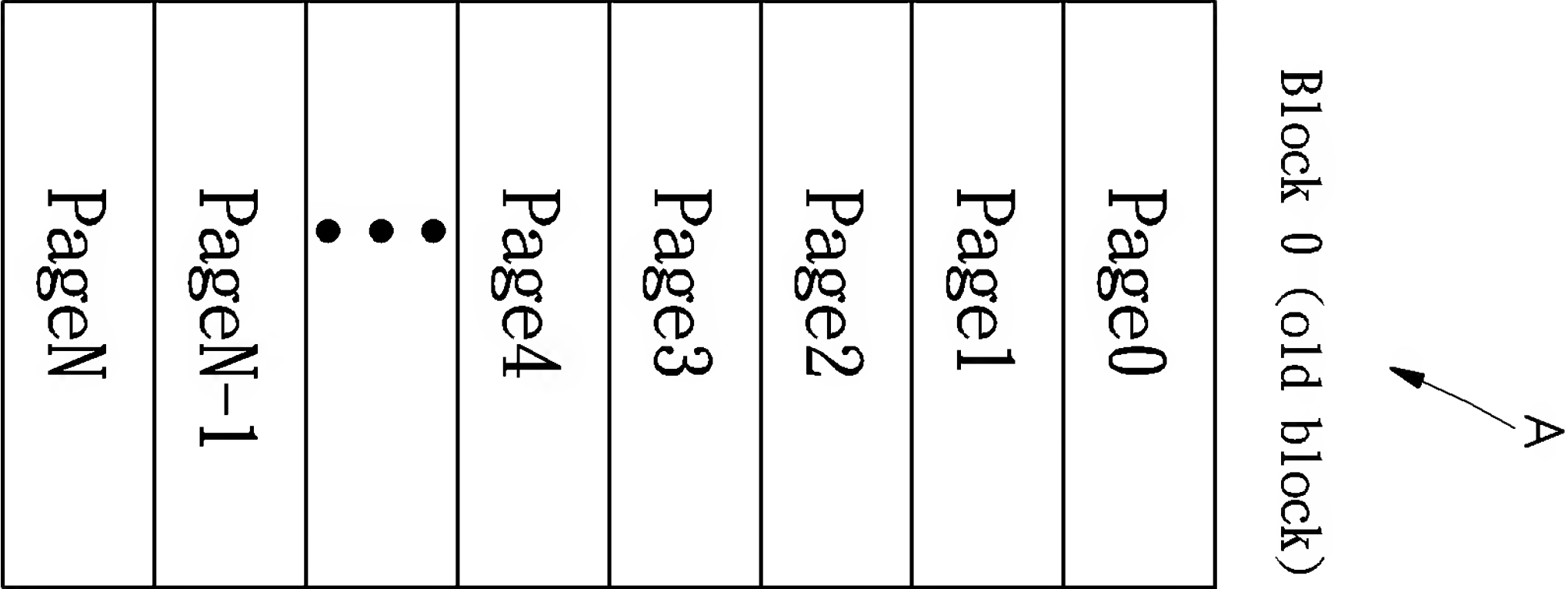
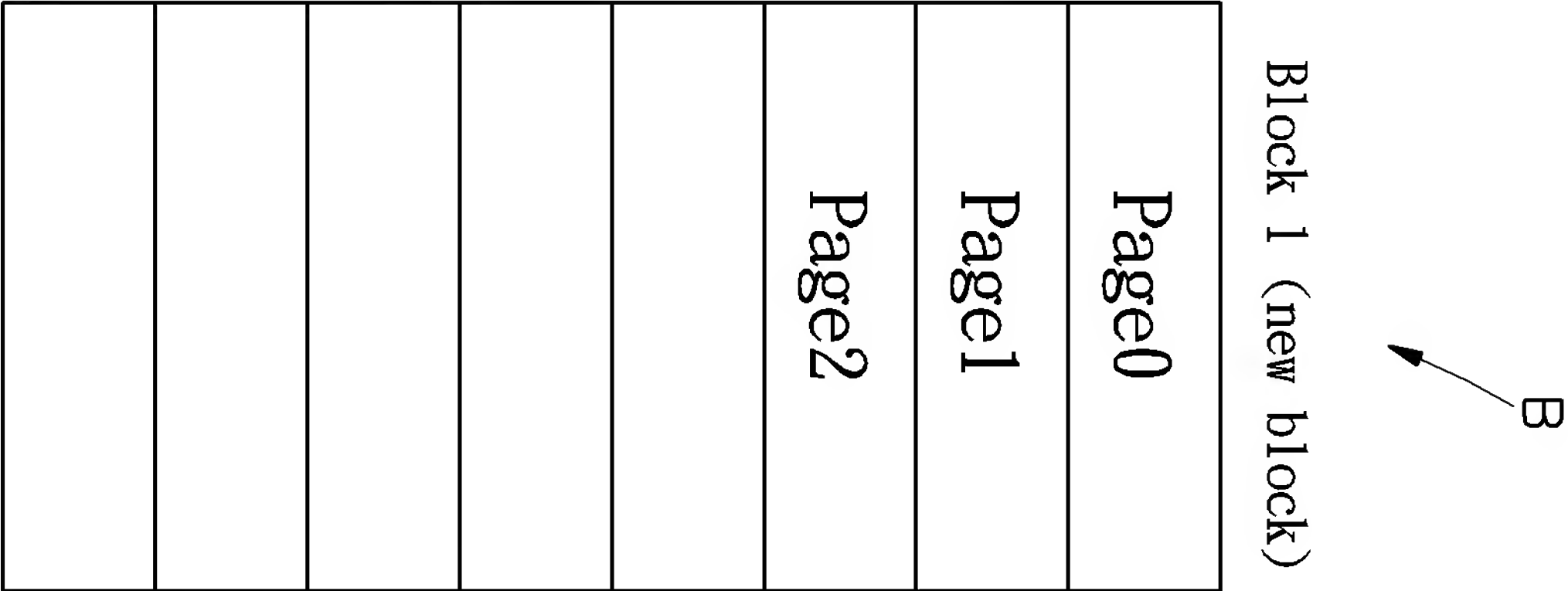


*PRIOR ART*  
*FIG. 1*

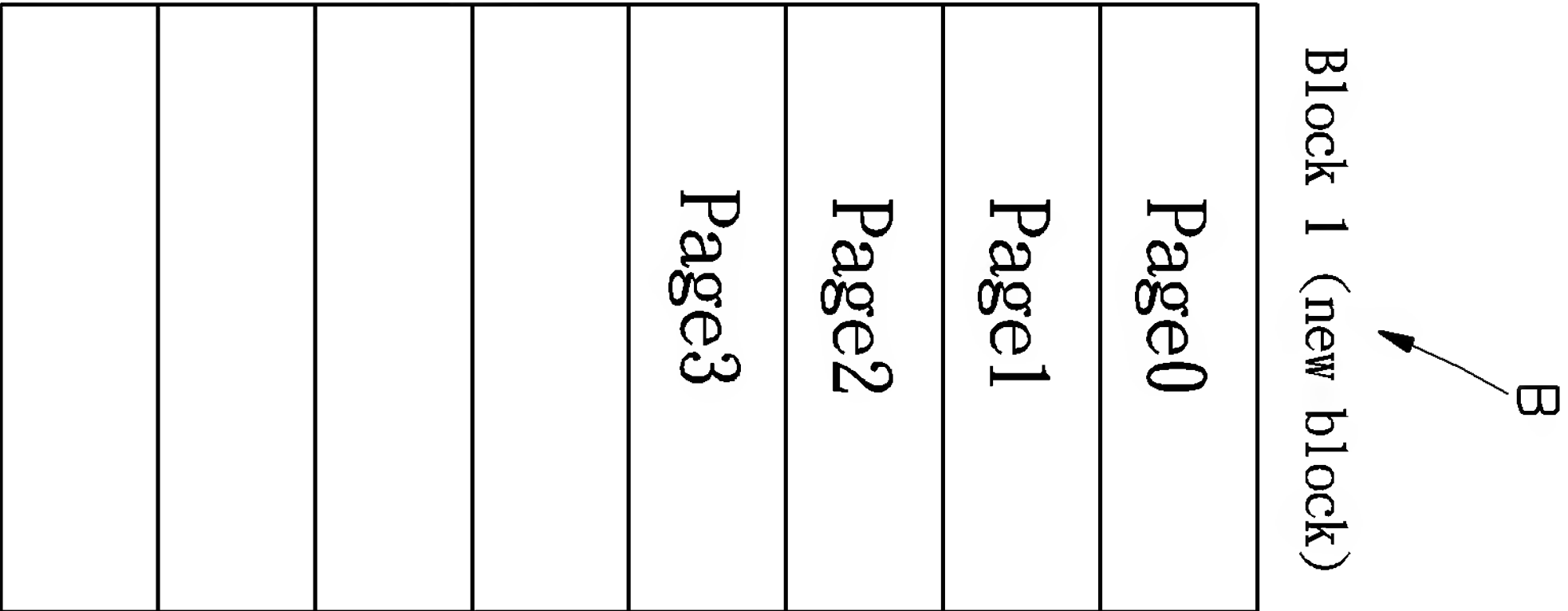
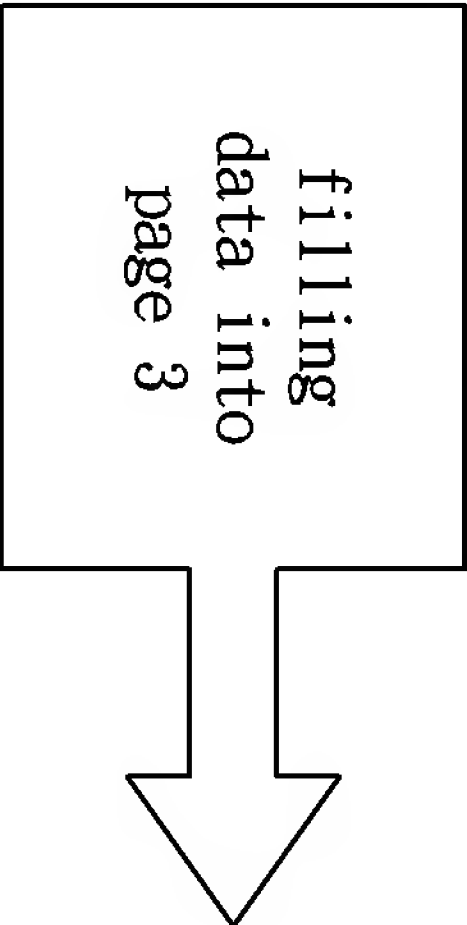
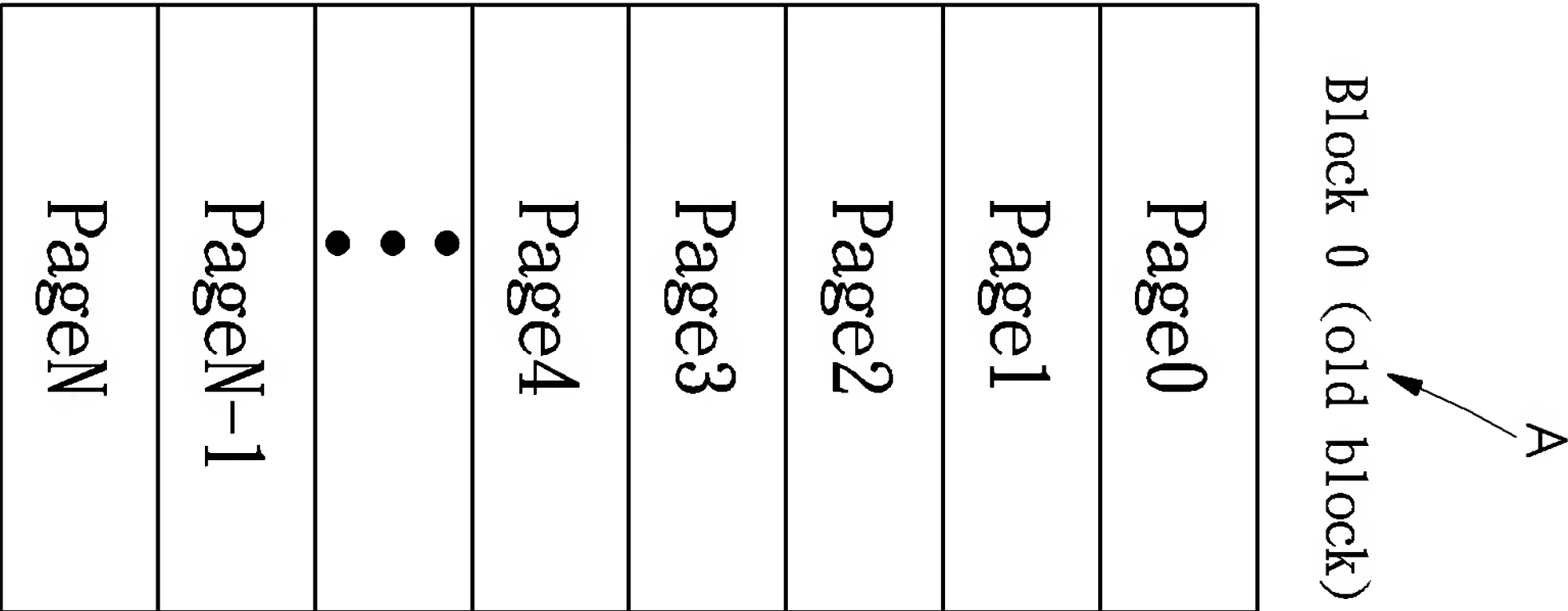


locating a new block, then  
moving the pages above page 3  
from the old block to the new  
block.



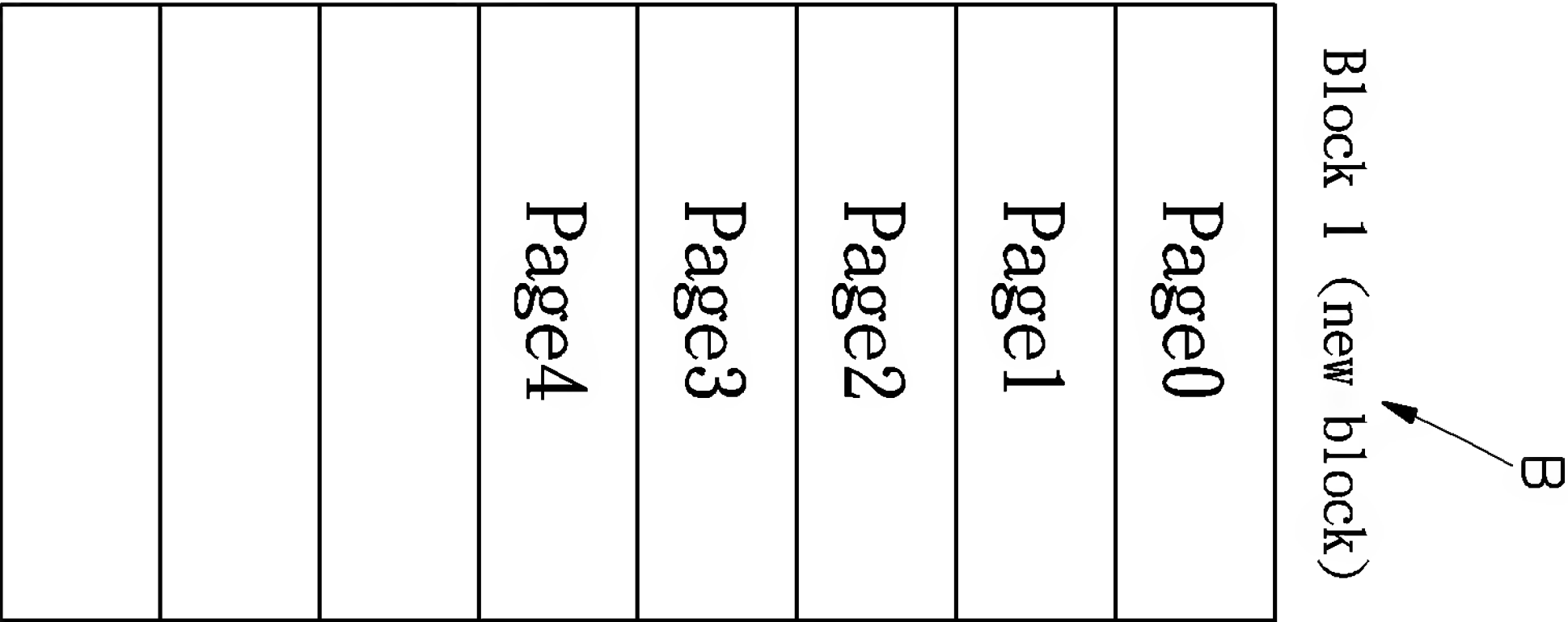
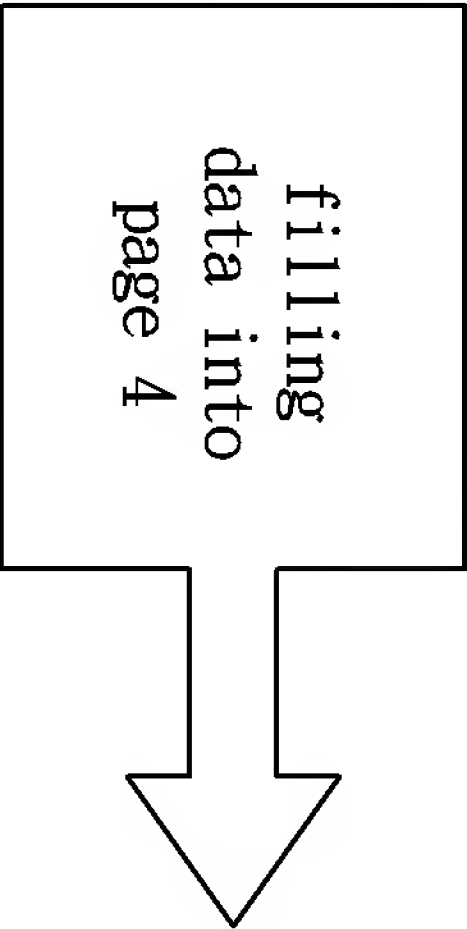
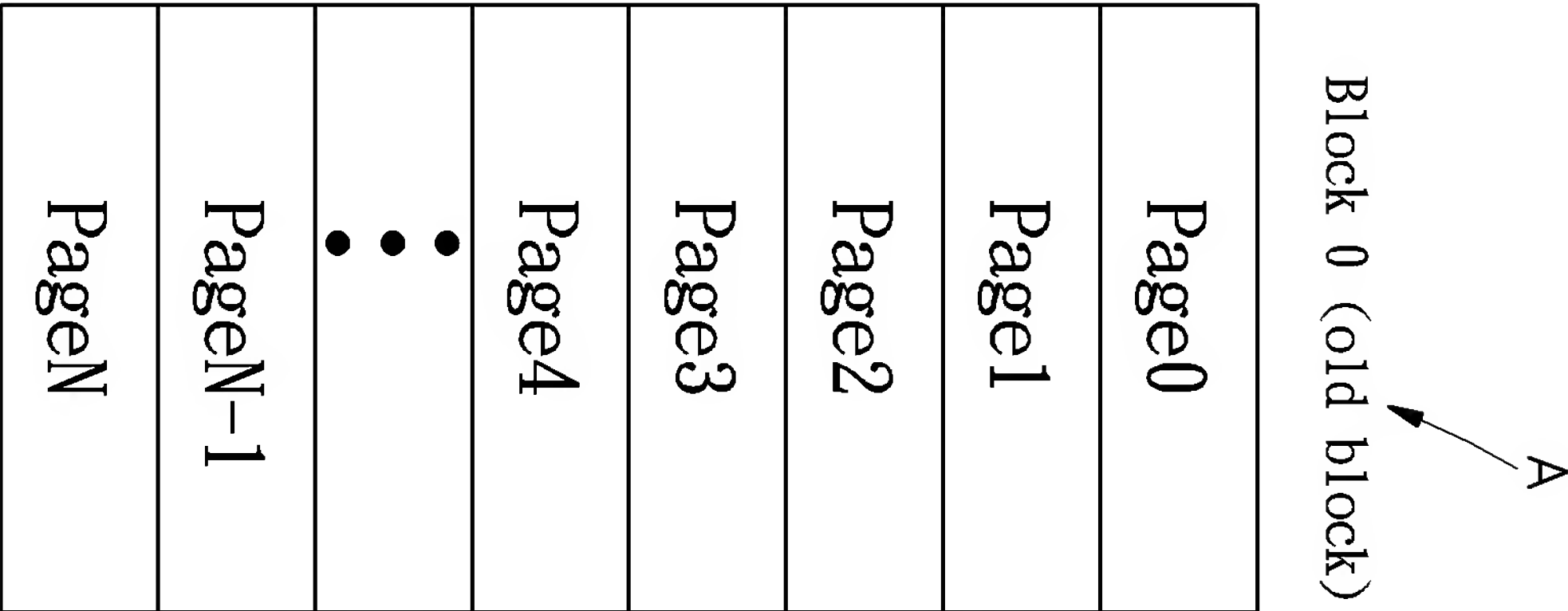
PRIOR ART

FIG.2



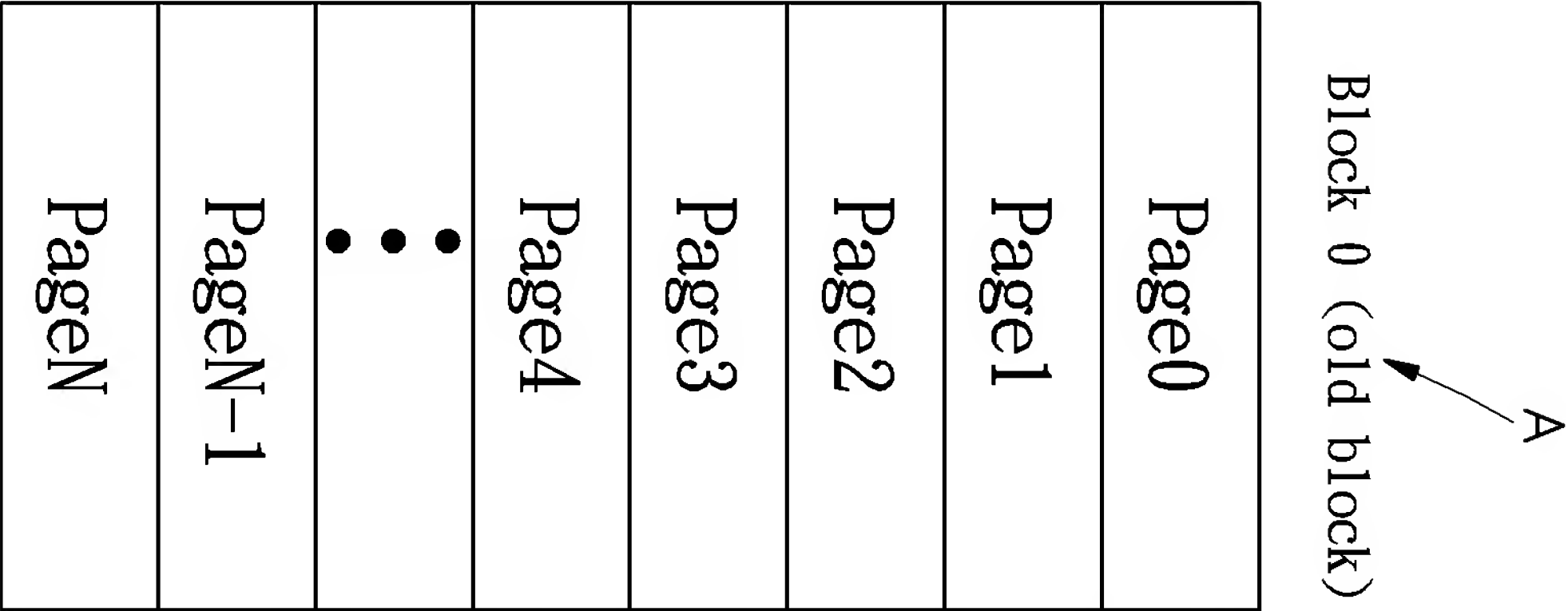
PRIOR ART

FIG. 3

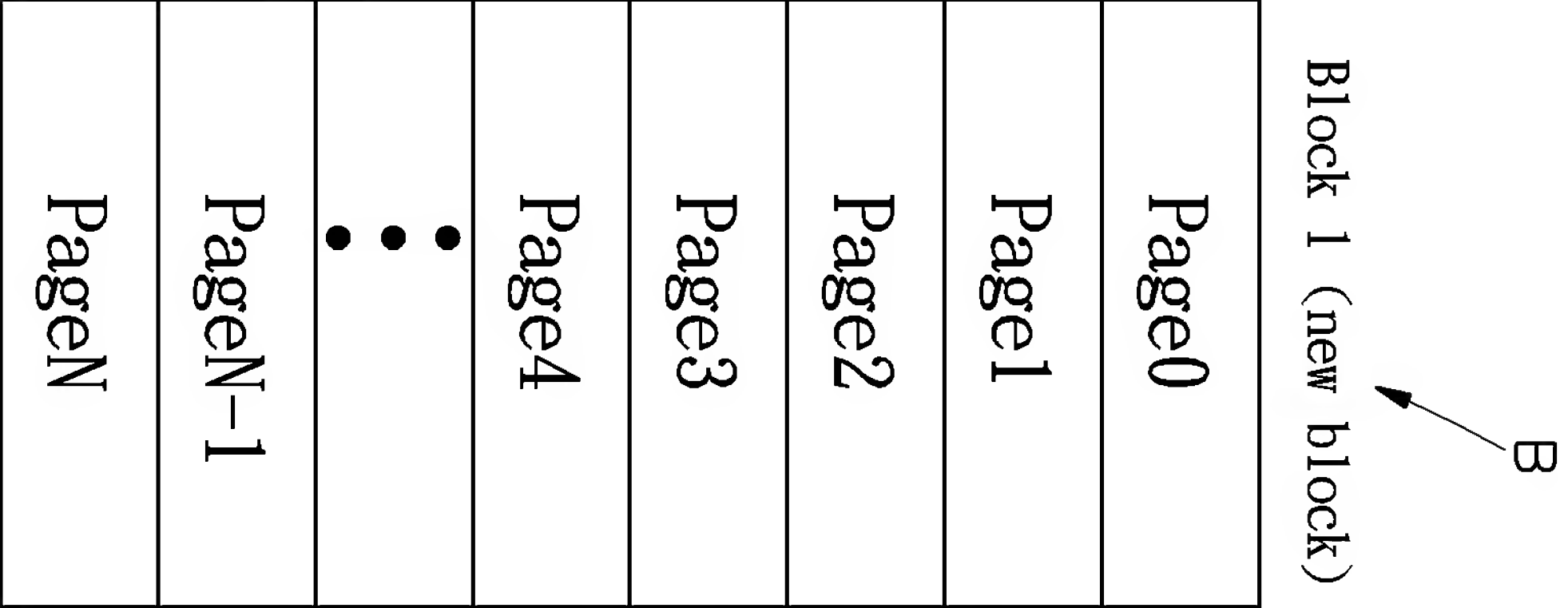
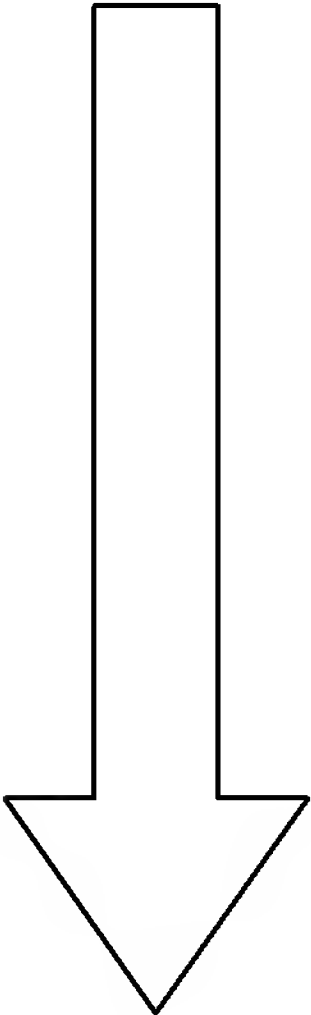


PRIOR ART

FIG. 4



moving pages below page 4  
from the old block to the  
new block



PRIOR ART

FIG. 5

~~Block 0 (mother block)~~

|         |
|---------|
| Page0   |
| Page1   |
| Page2   |
| Page3   |
| Page4   |
| ⋮       |
| PageN-1 |
| PageN   |

erasing the old block and  
replacing the block 0 by the  
new block.

~~Block 1~~ (block 0)

|         |
|---------|
| Page0   |
| Page1   |
| Page2   |
| Page3   |
| Page4   |
| ⋮       |
| PageN-1 |
| PageN   |

*PRIOR ART*  
*FIG. 6*

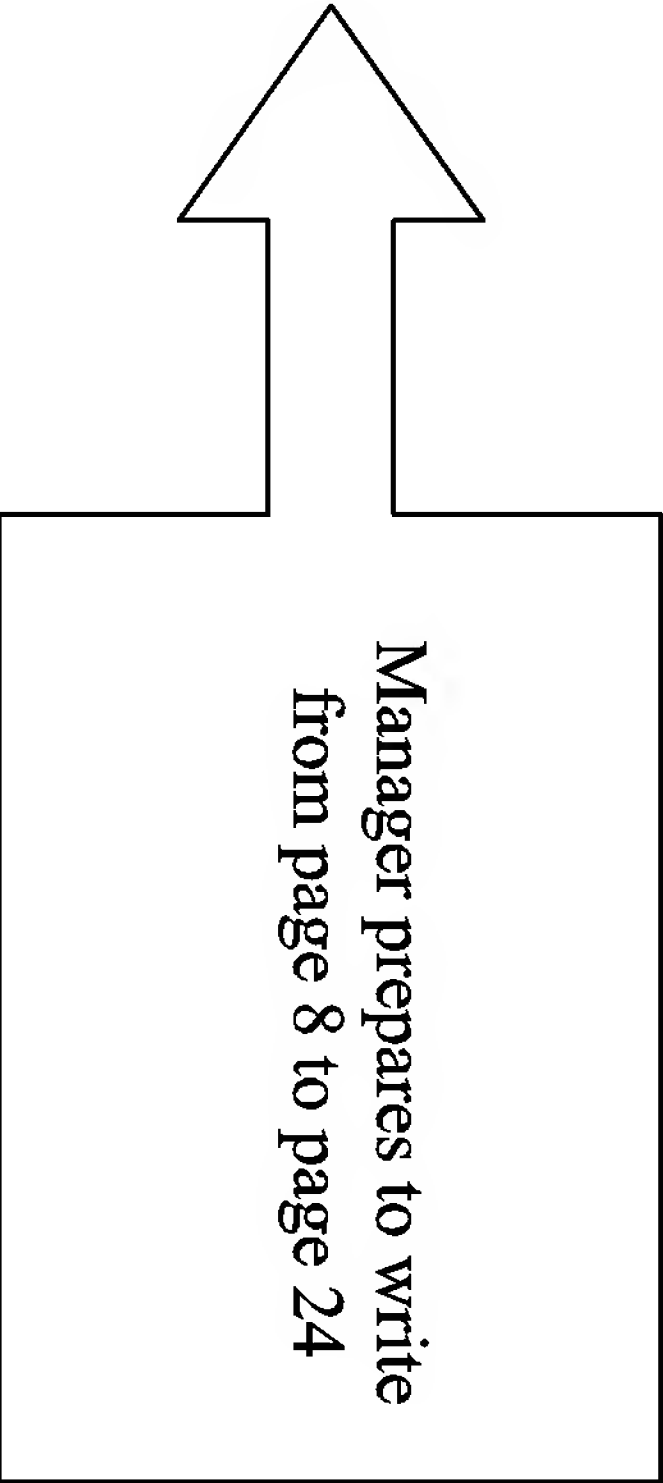
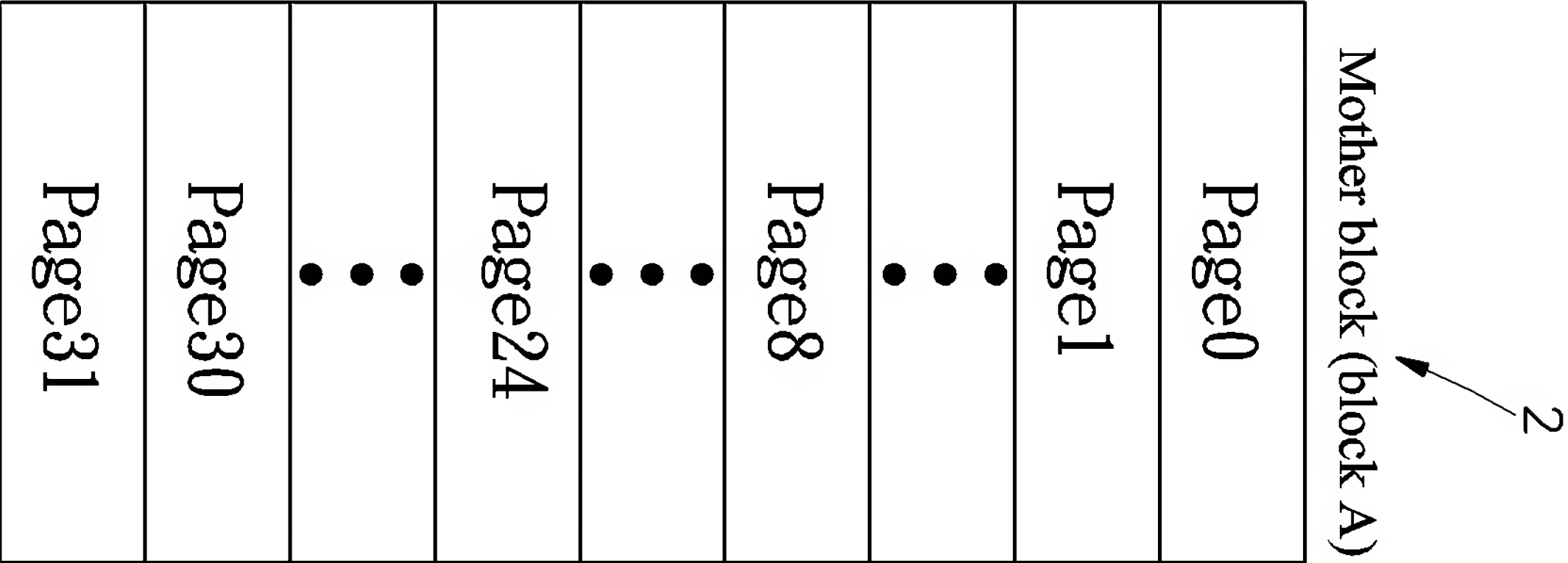
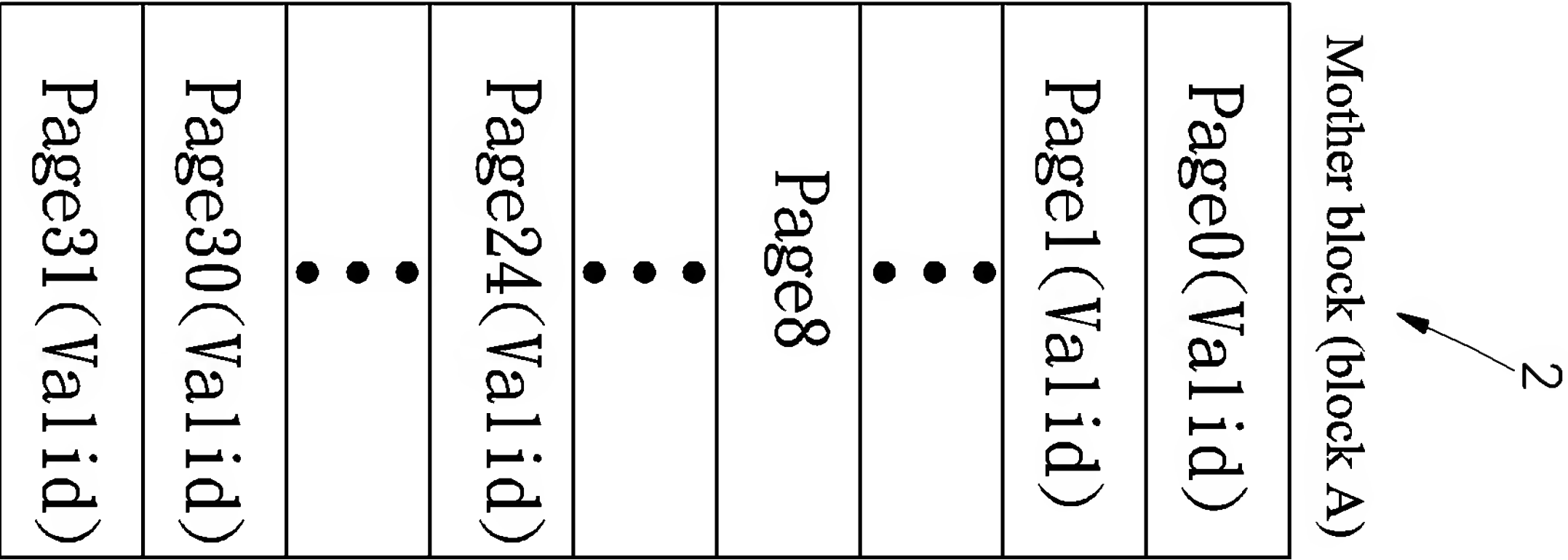


FIG. 7



Locating a new block and  
writing page 8 into new block  
to invalid original page 8 of  
the mother block

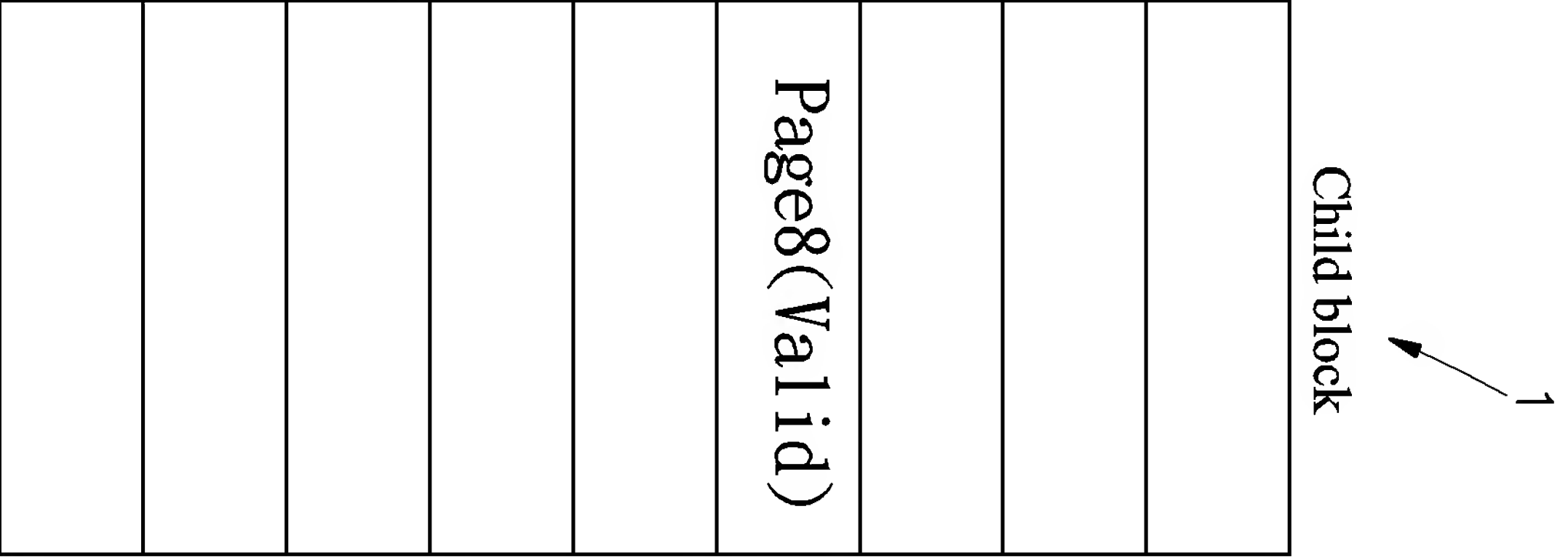


FIG. 8



2 ↖

Mother block (block A)

|               |
|---------------|
| Page0(Valid)  |
| Page1(Valid)  |
| •<br>•<br>•   |
| Page8         |
| Page9         |
| •<br>•<br>•   |
| Page24        |
| •<br>•<br>•   |
| Page30(Valid) |
| Page31(Valid) |

1 ↖

Child block

|               |
|---------------|
|               |
|               |
|               |
|               |
| Page8(Valid)  |
| Page9(Valid)  |
| •<br>•<br>•   |
| Page24(Valid) |
|               |
|               |
|               |

Executing writing in an orderly manner until proceeding to write to page 24

FIG. 9

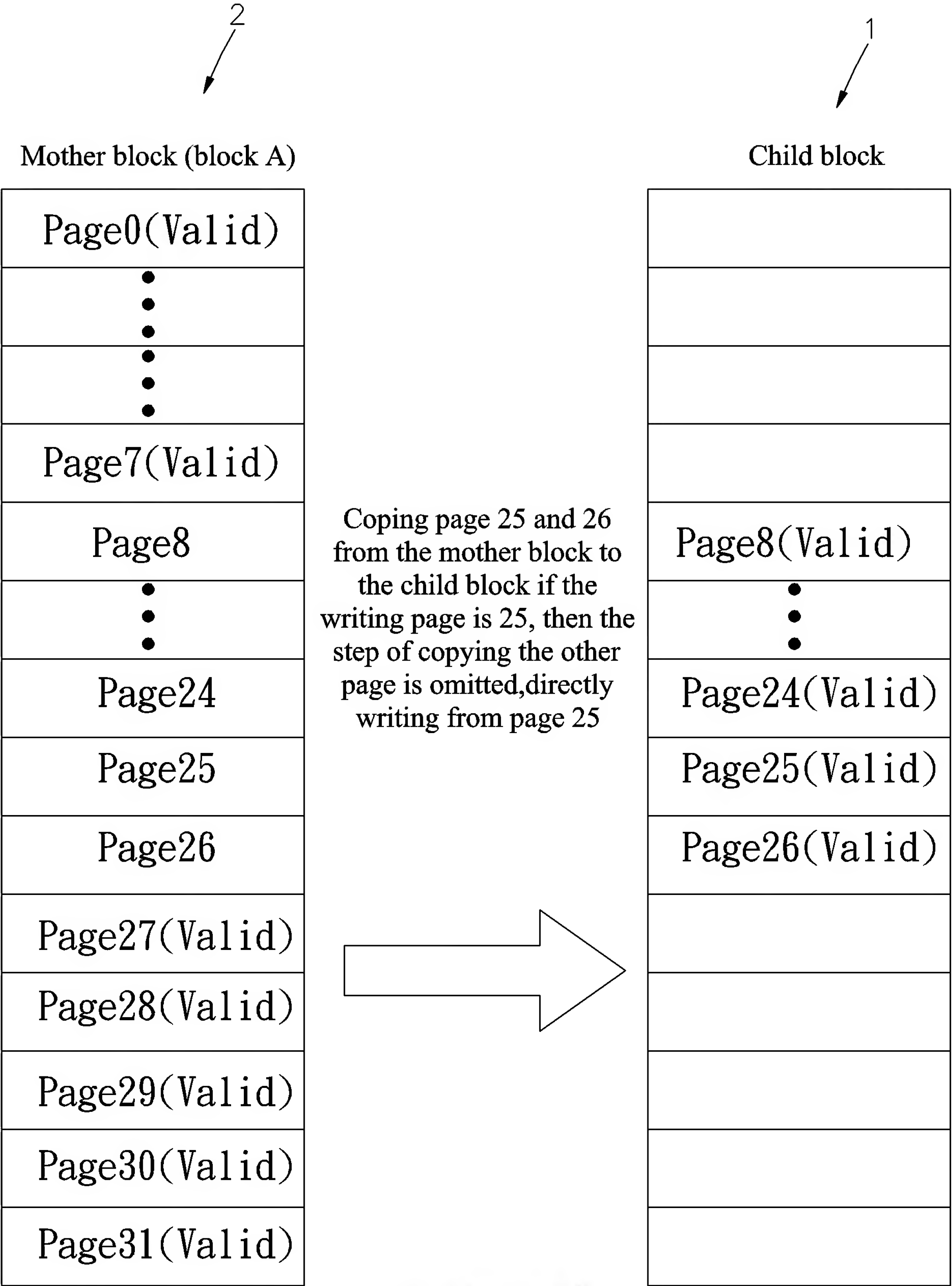


FIG. 10

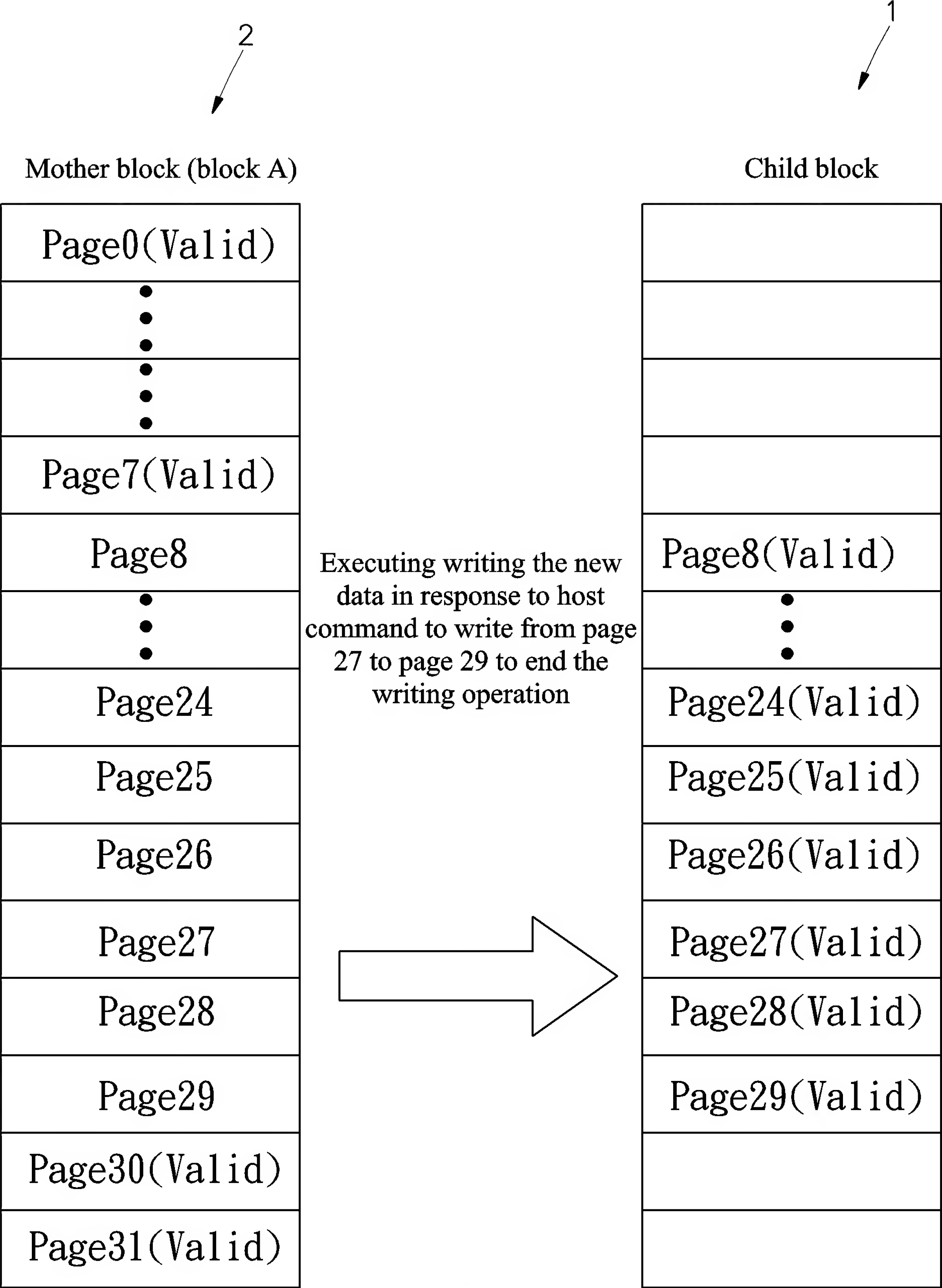


FIG. 11

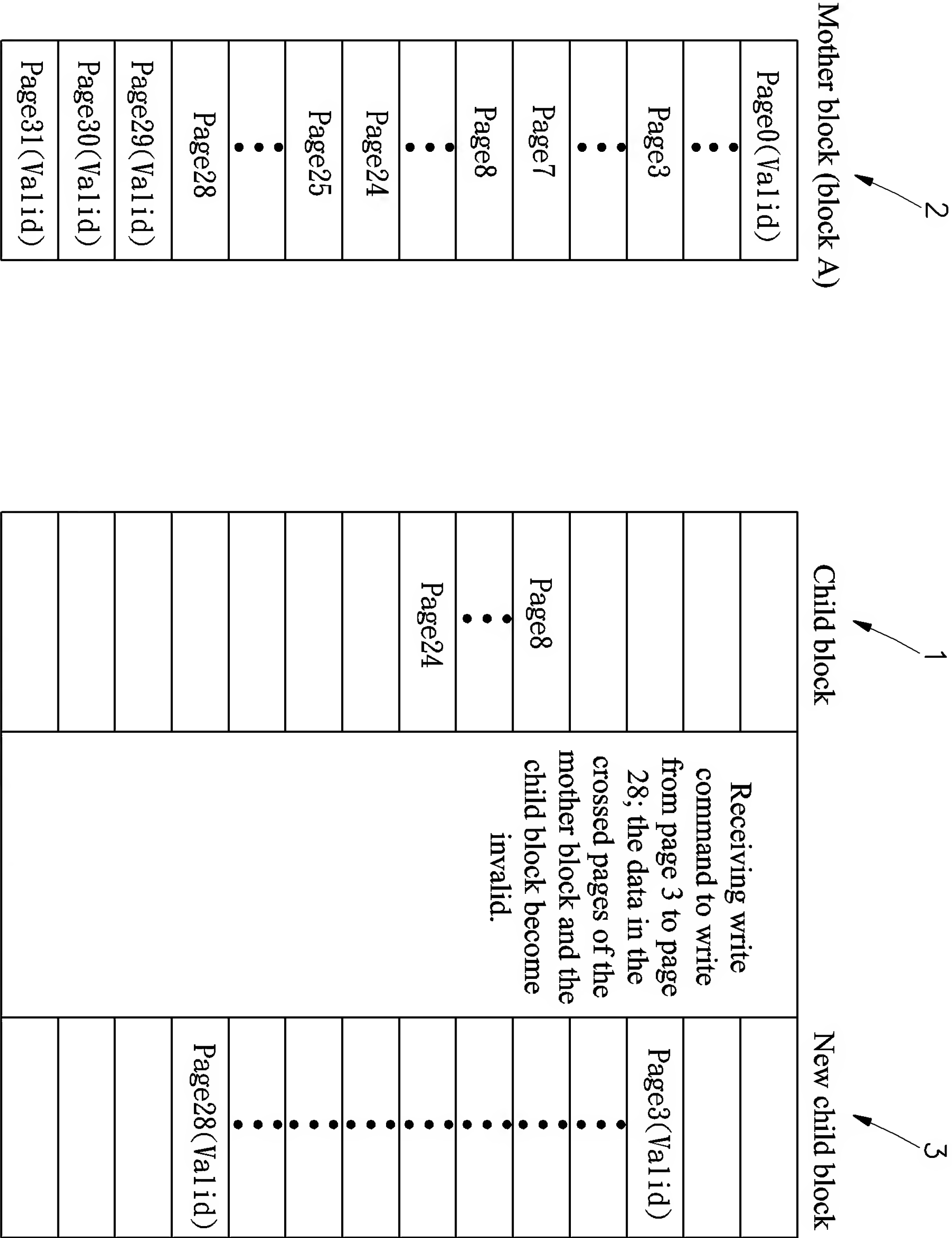


FIG. 12

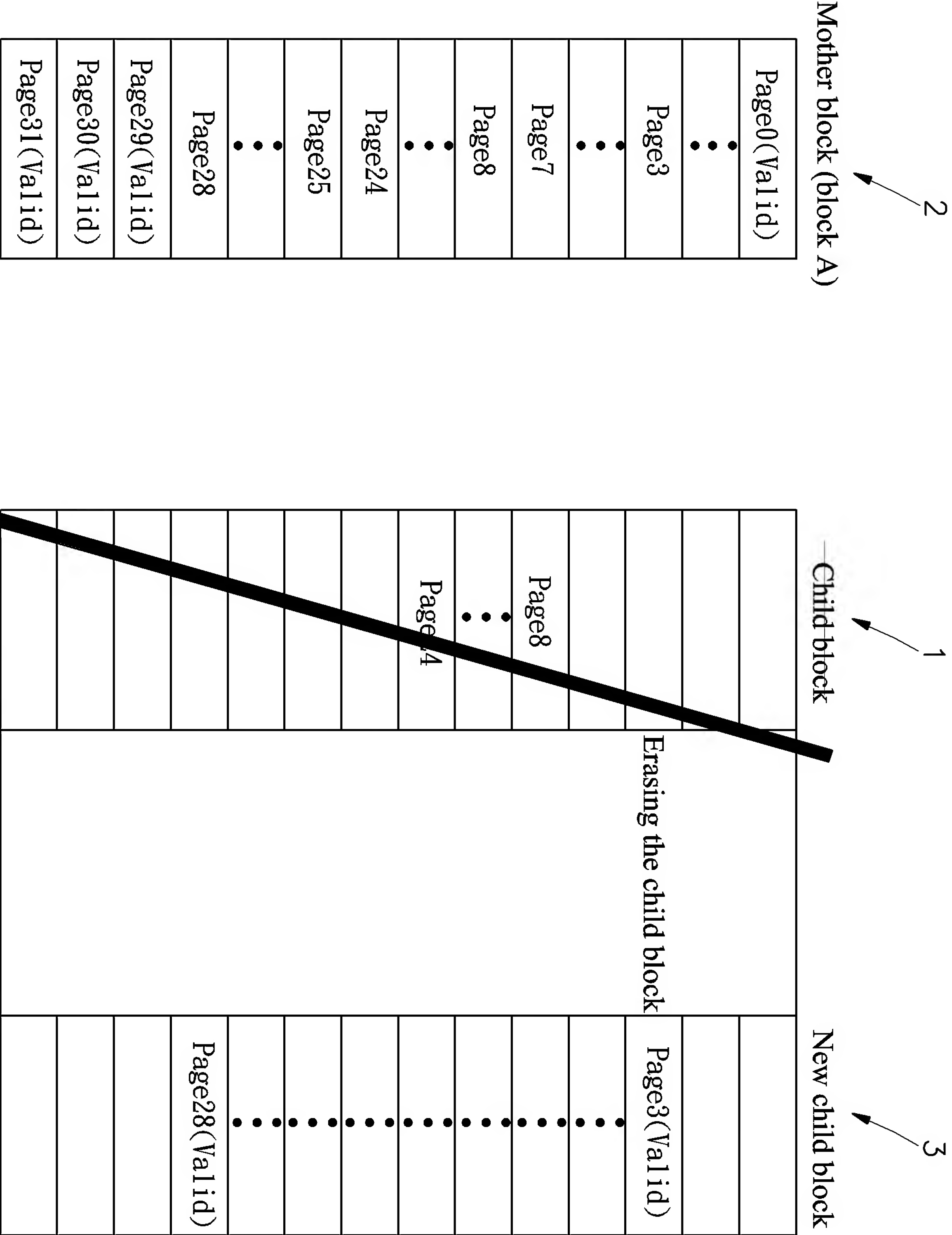


FIG. 13

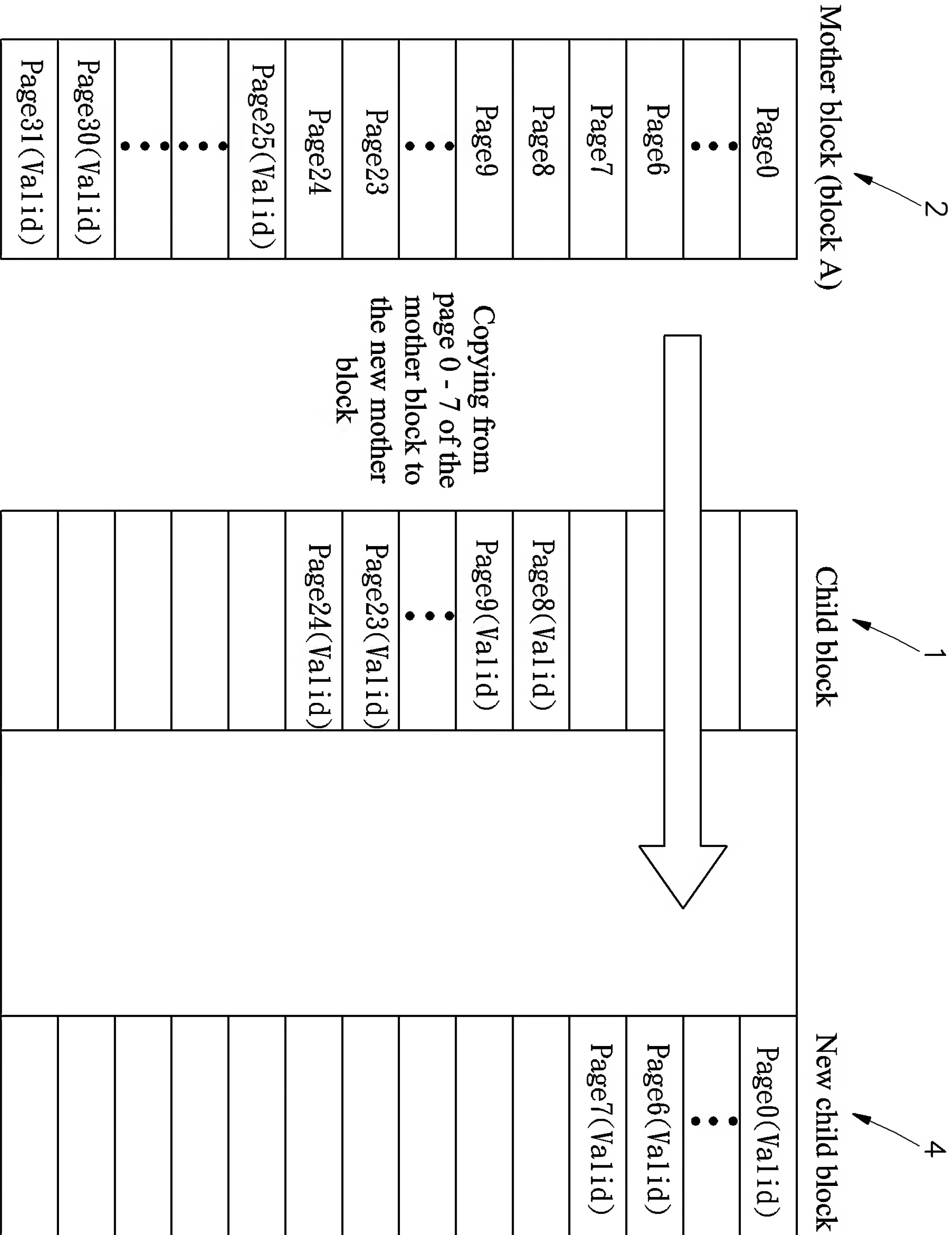


FIG. 14

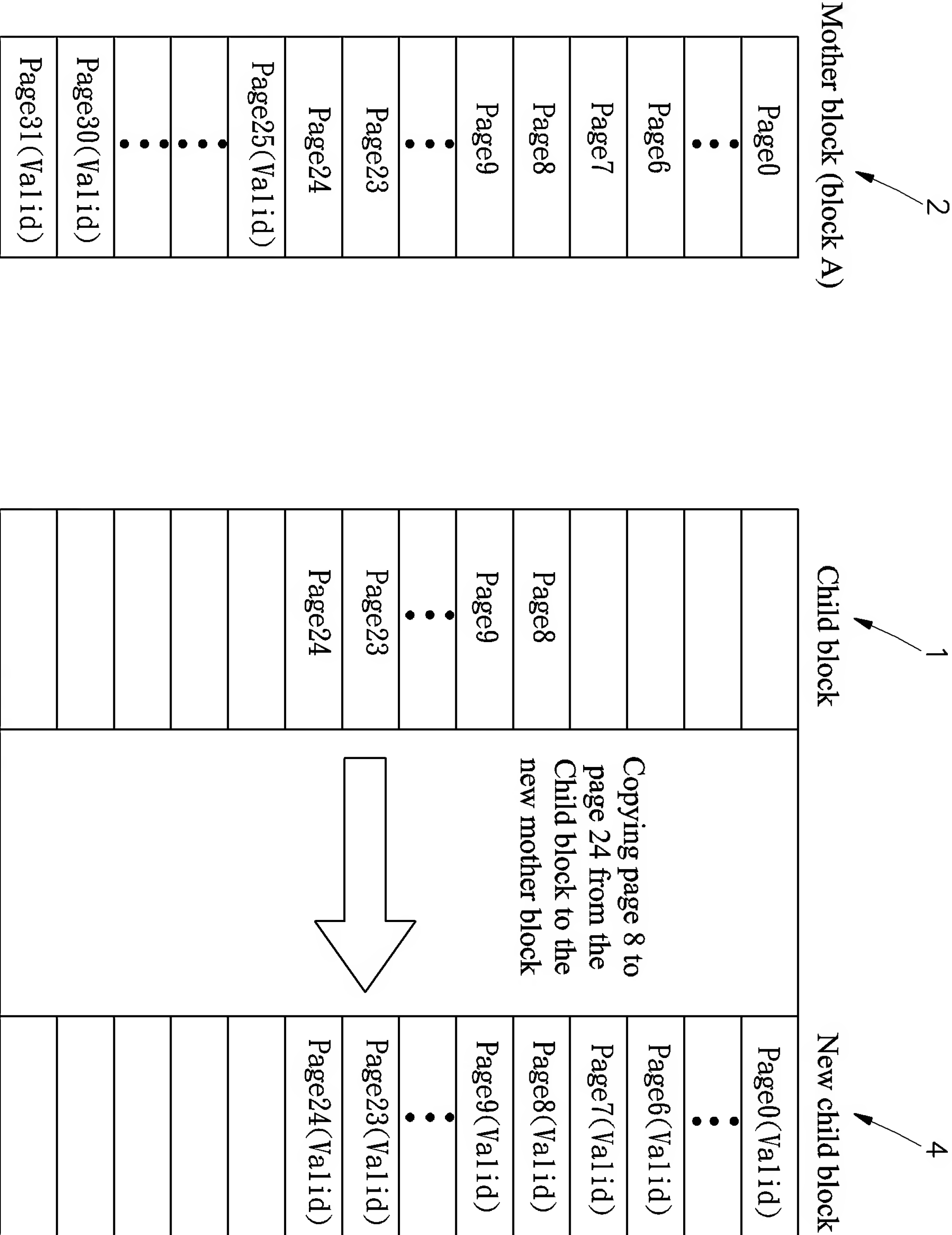


FIG. 15

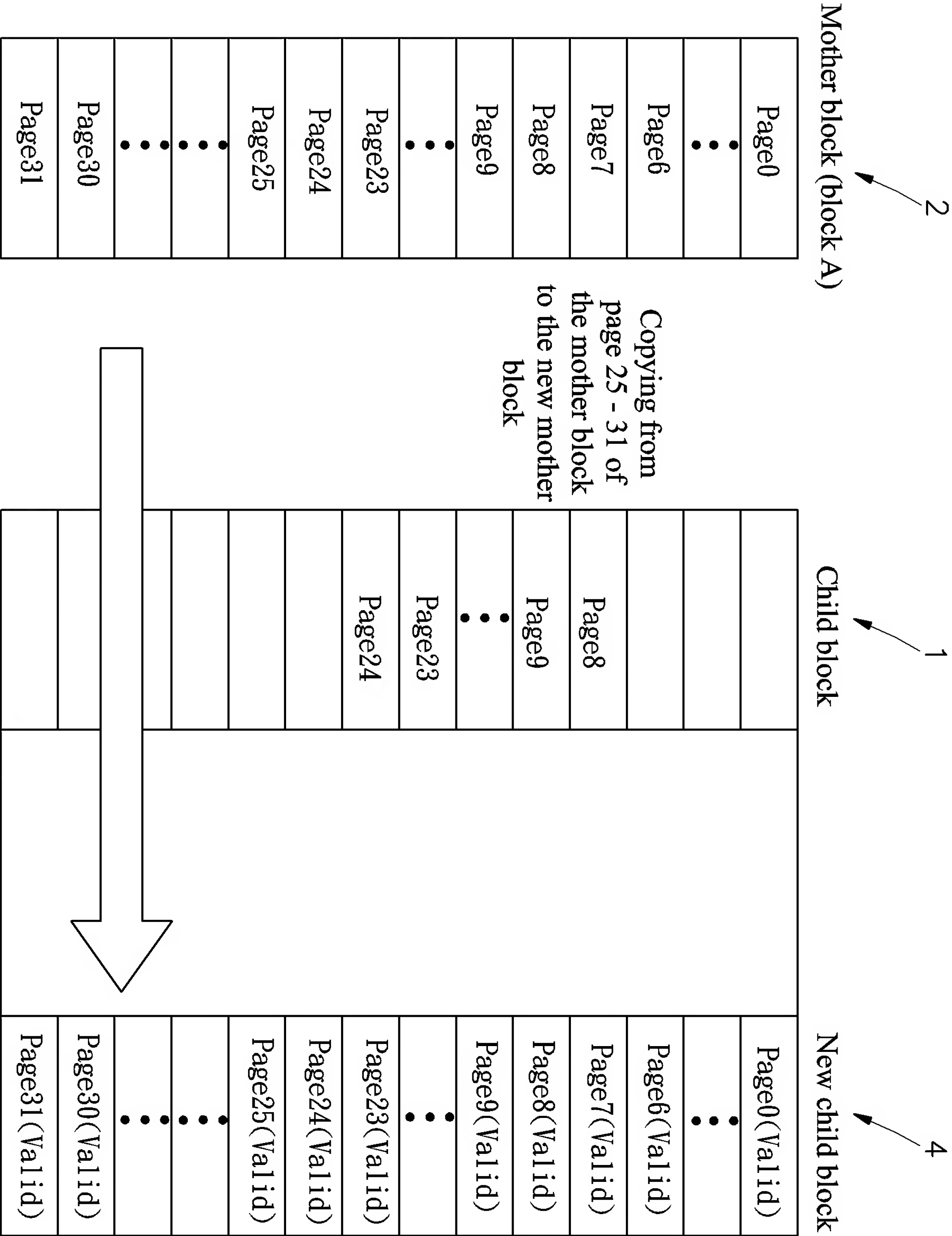


FIG. 16



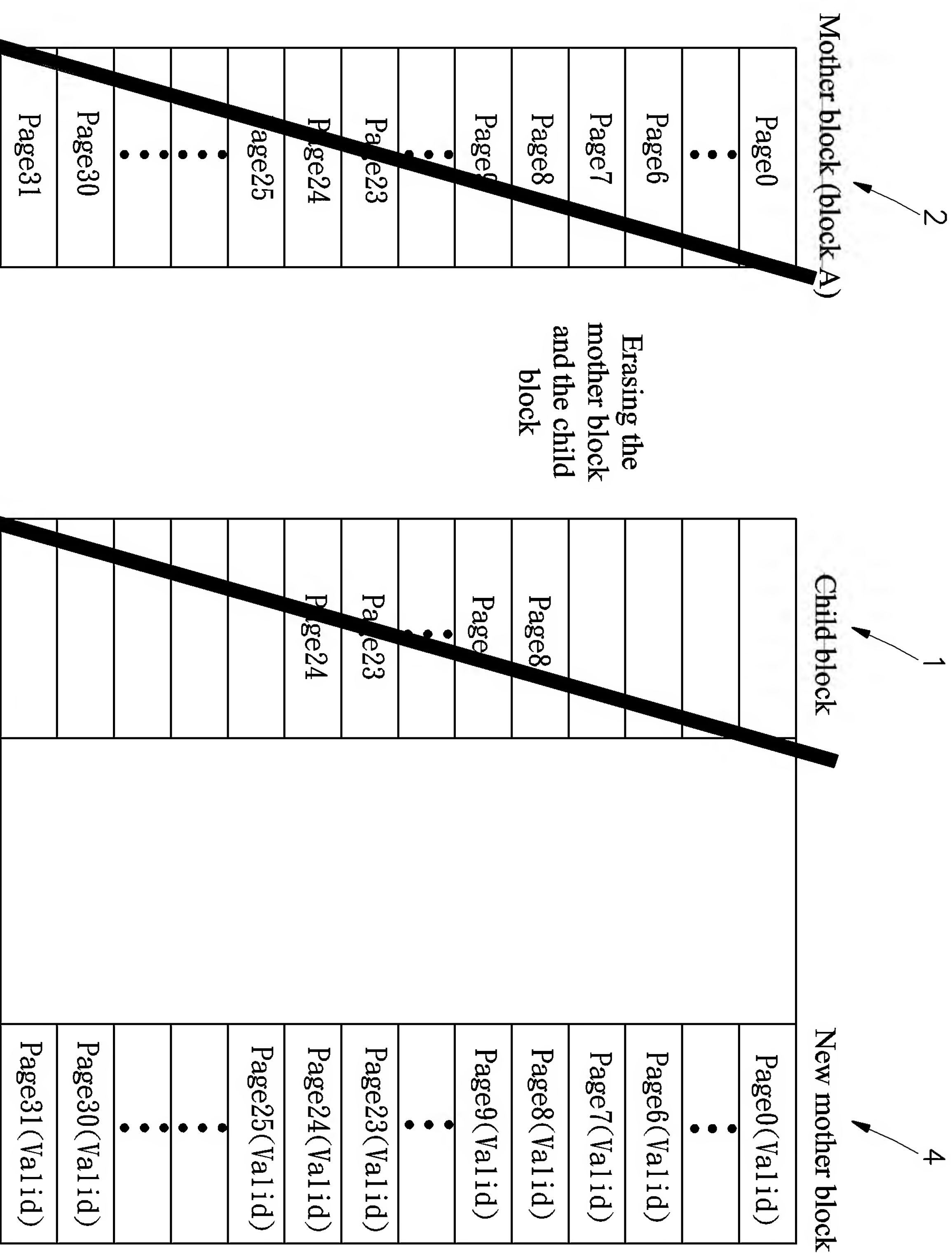
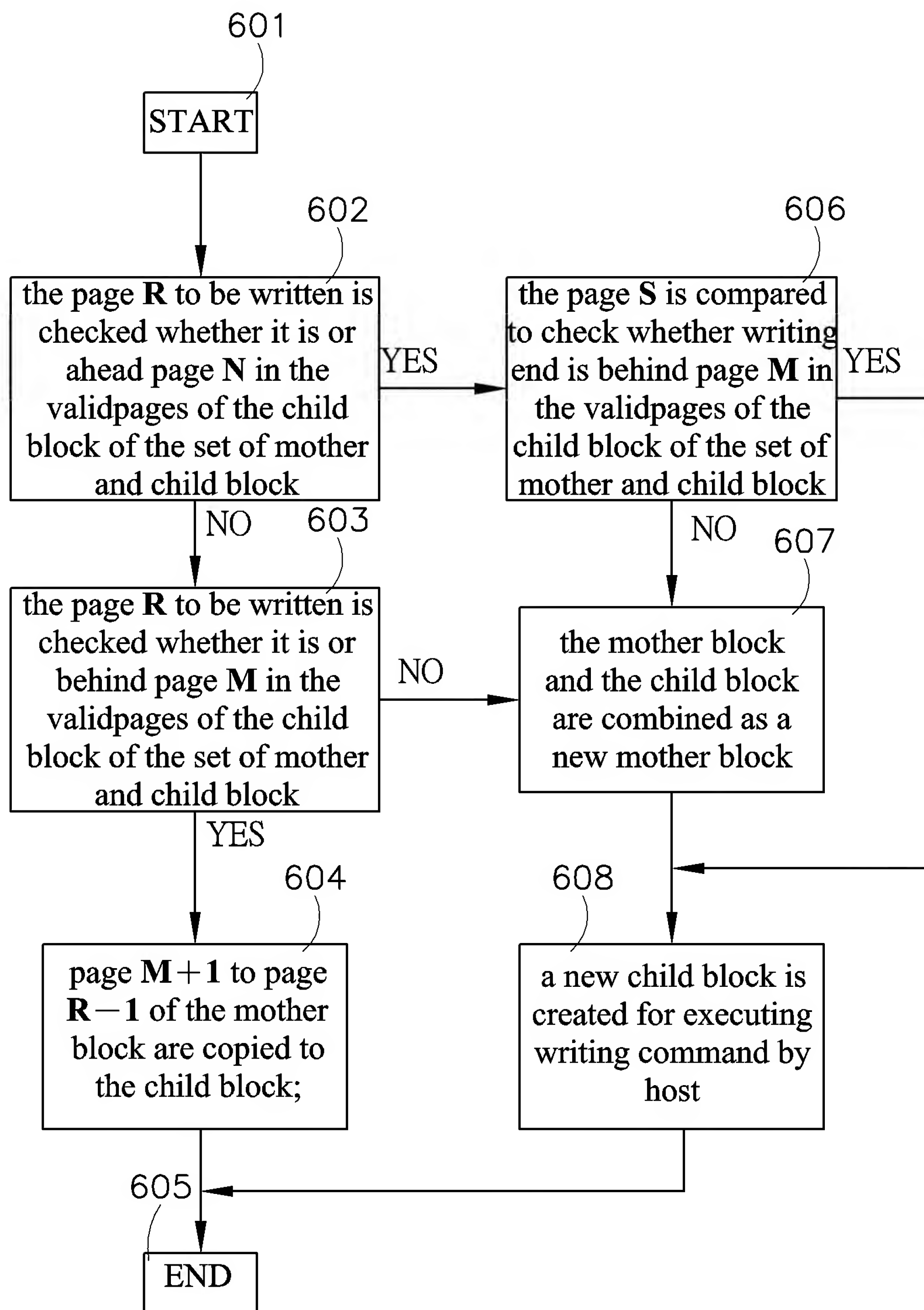


FIG. 17



*FIG. 18*

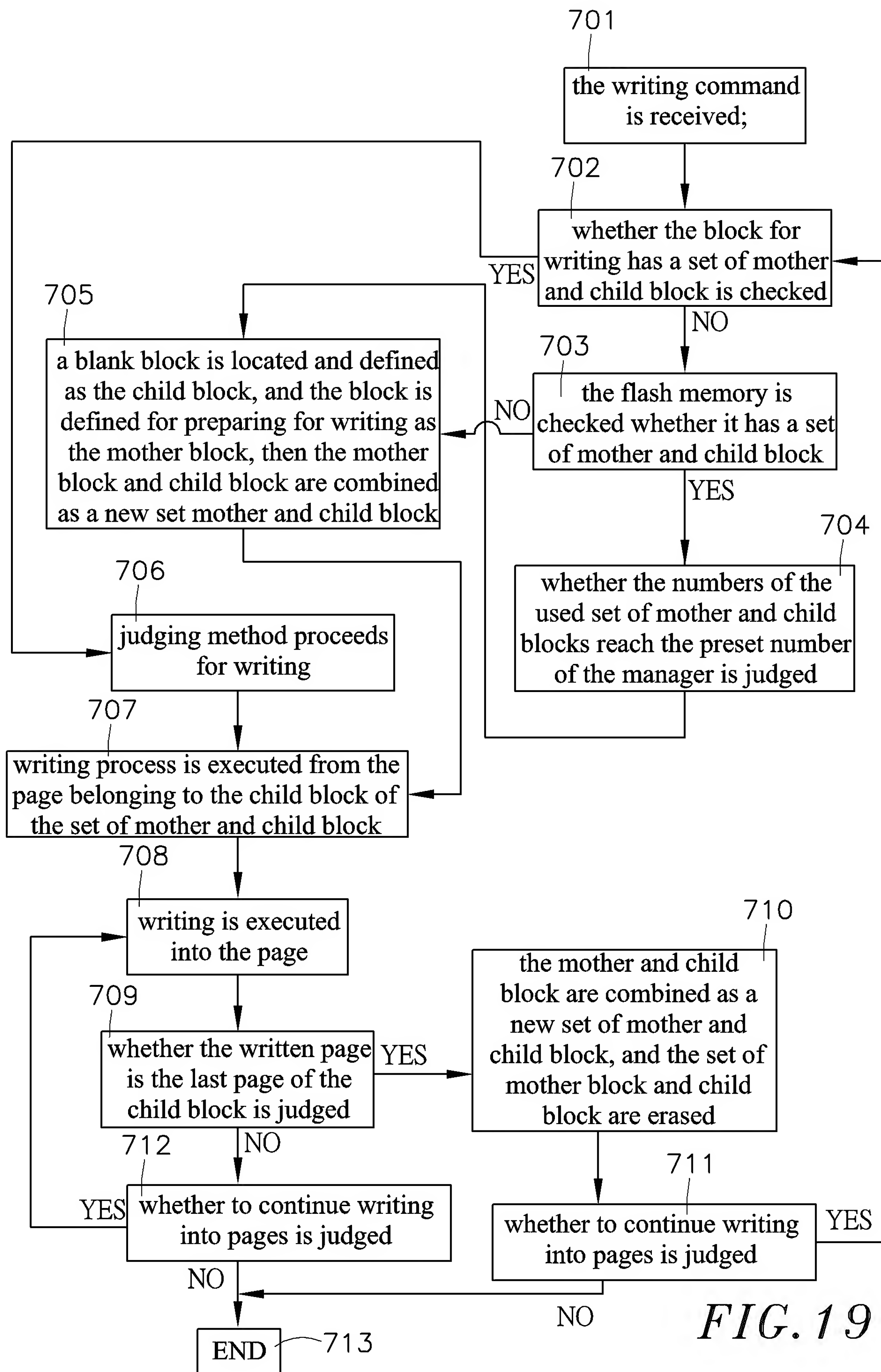


FIG. 19